

50412_022002 Sequence Listing.txt
SEQUENCE LISTING

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<110> EBBEHOJ, KIRSTEN
      JEPSSEN, TRINE
      KNUDSEN, CARSTEN BOYE
      LARSEN, BJARNE DUE
      KNOTT, DAVID

<120> STABILIZED EXENDIN-4 COMPOUNDS

<130> 50412/022002

<140> 10/529,858
<141> 2006-04-26

<150> PCT/DK2003/000651
<151> 2003-10-02

<150> 60/415,626
<151> 2002-10-02

<160> 108

<170> PatentIn version 3.5

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50412_022002 Sequence Listing.txt

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Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys
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Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys
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Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys
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Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys
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Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys
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50412_022002 Sequence Listing.txt

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50412_022002 Sequence Listing.txt

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50412_022002 sequence Listing.txt

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Ser Gly Ala Pro Pro Ser

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Ser Gly Ala Pro Pro Ser
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50412_022002 Sequence Listing.txt

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50412_022002 Sequence Listing.txt

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Ser Gly Ala Pro Pro Ser
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Ser Gly Ala Pro Pro Ser
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50412_022002 Sequence Listing.txt

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50412_022002 Sequence Listing.txt

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Lys Lys
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50412_022002 Sequence Listing.txt

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Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
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50412_022002 Sequence Listing.txt

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Lys Lys
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Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser
35 40

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Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser
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Ser Gly Ala Ser Lys Lys Lys Lys Lys Lys
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50412_022002 Sequence Listing.txt

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 Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
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Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
 20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
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Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
 35 40 45

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50412_022002 Sequence Listing.txt

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Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
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Lys Asp Gly Gly Pro Ser Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys
35 40 45

Lys Lys
50

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20 25 30

Ser Gly Ala Ser
35

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50412_022002 Sequence Listing.txt

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          20          25          30
Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser
          35          40

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Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser
          35          40

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50412_022002 Sequence Listing.txt

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Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

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35 40 45

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Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

50412_022002 Sequence Listing.txt

Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
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Lys Xaa Gly Gly Pro Ser Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys
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Lys Lys
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50412_022002 Sequence Listing.txt

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
20 25 30

Ser Gly Ala Ser
35

<210> 50

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

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<222> (31)..(31)

<223> Trp(02)

<220>

<221> MOD_RES

<222> (34)..(34)

<223> Cyclic Imide

<400> 50

Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser
35 40

<210> 51

<211> 42

<212> PRT

<213> Artificial Sequence

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<220>

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<223> Trp(02)

<220>

<221> MOD_RES

50412_022002 Sequence Listing.txt

<222> (34)..(34)
 <223> Cyclic Imide

<400> 51
 Asn Glu Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
 1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
 20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser
 35 40

<210> 52
 <211> 42
 <212> PRT
 <213> Artificial Sequence

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<220>
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 <222> (25)..(25)
 <223> Trp(02)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> Cyclic Imide

<400> 52
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Ser Lys Lys Lys Lys Lys Lys
 35 40

<210> 53
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (31)..(31)
 <223> Trp(02)

50412_022002 Sequence Listing.txt

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<220>
<221> MOD_RES
<222> (34)..(34)
<223> Cyclic Imide

<400> 53
Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1          5          10
Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20          25          30
Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
35          40          45

<210> 54
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
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peptide

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<222> (31)..(31)
<223> Trp(O2)

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Cyclic Imide

<400> 54
Asn Glu Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1          5          10
Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20          25          30
Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
35          40          45

<210> 55
<211> 50
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<220>
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peptide

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50412_022002 Sequence Listing.txt

<221> MOD_RES
<222> (20)..(20)
<223> Met(0)

<400> 55
Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Gly Trp Leu
20 25 30

Lys Asp Gly Gly Pro Ser Ser Gly Ala Pro Pro Ser Lys Lys Lys
35 40 45

Lys Lys
50

<210> 56
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (14)..(14)
<223> Met(0)

<400> 56
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Gly Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
20 25 30

Ser Gly Ala Ser
35

<210> 57
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (20)..(20)
<223> Met(0)

50412_022002 Sequence Listing.txt

<400> 57

Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser
35 40

<210> 58

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (20)..(20)

<223> Met(O)

<400> 58

Asn Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser
35 40

<210> 59

<211> 42

<212> PRT

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<220>

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<222> (14)..(14)

<223> Met(O)

<400> 59

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
Page 27

20

Ser Gly Ala Ser Lys Lys Lys Lys Lys Lys
35 40

<210> 60
<211> 48
<212> PRT
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<220>
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peptide

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<223> Met(0)

<400> 60
Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
35 40 45

<210> 61
<211> 48
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<220>
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peptide

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<223> Met(0)

<400> 61
Asn Glu Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
35 40 45

50412_022002 Sequence Listing.txt

<210> 62
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 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (20)..(20)
 <223> Met(0)

<220>
 <221> MOD_RES
 <222> (34)..(34)
 <223> Cyclic Imide

<400> 62
 Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
 1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
 20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys
 35 40 45

Lys Lys
 50

<210> 63
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (14)..(14)
 <223> Met(0)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> Cyclic Imide

<400> 63
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
 Page 29

20

Ser Gly Ala Ser
35

<210> 64
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> Met(0)

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Cyclic Imide

<400> 64
Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser
35 40

<210> 65
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<212> PRT
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<220>
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<223> Met(0)

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Cyclic Imide

<400> 65
Asn Glu Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

50412_022002 Sequence Listing.txt

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser
35 40

<210> 66
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<400> 66
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
20 25 30

Ser Gly Ala Ser Lys Lys Lys Lys Lys Lys
35 40

<210> 67
<211> 48
<212> PRT
<213> Artificial Sequence

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<223> Met(0)

<220>
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<222> (34)..(34)
<223> Cyclic Imide

50412_022002 Sequence Listing.txt

<400> 67
Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys Lys
35 40 45

<210> 68
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
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<223> Met(0)

<220>
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<222> (34)..(34)
<223> Cyclic Imide

<400> 68
Asn Glu Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys Lys
35 40 45

<210> 69
<211> 50
<212> PRT
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<220>
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<223> Met(0)

<220>
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50412_022002 Sequence Listing.txt

<222> (31)..(31)

<223> Trp(02)

<400> 69

Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1 5 10 15Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20 25 30Lys Asp Gly Gly Pro Ser Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys
35 40 45Lys Lys
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<210> 70

<211> 36

<212> PRT

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peptide

<220>

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<222> (14)..(14)

<223> Met(0)

<220>

<221> MOD_RES

<222> (25)..(25)

<223> Trp(02)

<400> 70

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
20 25 30Ser Gly Ala Ser
35

<210> 71

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

50412_022002 Sequence Listing.txt

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<220>
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<223> Met(0)

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Trp(02)

<400> 71
Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1          5          10          15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20          25          30

Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser
35          40

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<210> 72
<211> 42
<212> PRT
<213> Artificial Sequence

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<220>
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      peptide

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<220>
<221> MOD_RES
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<223> Met(0)

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Trp(02)

<400> 72
Asn Glu Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1          5          10          15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20          25          30

Lys Asp Gly Gly Pro Ser Ser Gly Ala ser
35          40

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<210> 73
<211> 42
<212> PRT
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic

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50412_022002 Sequence Listing.txt

peptide

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Met(0)

<220>

<221> MOD_RES

<222> (25)..(25)

<223> Trp(02)

<400> 73

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Ser Lys Lys Lys Lys Lys Lys
 35 40

<210> 74

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<220>

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<222> (20)..(20)

<223> Met(0)

<220>

<221> MOD_RES

<222> (31)..(31)

<223> Trp(02)

<400> 74

Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
 1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
 20 25 30

Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys Lys
 35 40 45

<210> 75

<211> 48

<212> PRT

<213> Artificial Sequence

50412_022002 Sequence Listing.txt

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<220>
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peptide

<220>
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<223> Met(o)

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Trp(O2)

<400> 75
Asn Glu Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1          5          10          15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20          25          30

Lys Asp Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
35          40          45

<210> 76
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Met(o)

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Trp(O2)

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Cyclic Imide

<400> 76
Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1          5          10          15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
20          25          30

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50412_022002 Sequence Listing.txt

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Pro Pro Ser Lys Lys Lys
 35 40 45

Lys Lys
 50

<210> 77
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <223> Met(0)

<220>
 <221> MOD_RES
 <222> (25)..(25)
 <223> Trp(02)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> Cyclic Imide

<400> 77
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Ser
 35

<210> 78
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> MOD_RES
 <222> (20)..(20)
 <223> Met(0)

<220>
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 <222> (31)..(31)

50412_022002 Sequence Listing.txt

<223> Trp(02)

<220>

<221> MOD_RES

<222> (34)..(34)

<223> Cyclic Imide

<400> 78

Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
 1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
 20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser
 35 40

<210> 79

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (20)..(20)

<223> Met(0)

<220>

<221> MOD_RES

<222> (31)..(31)

<223> Trp(02)

<220>

<221> MOD_RES

<222> (34)..(34)

<223> Cyclic Imide

<400> 79

Asn Glu Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
 1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
 20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser
 35 40

<210> 80

<211> 42

<212> PRT

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50412_022002 Sequence Listing.txt

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<220>
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<222> (14)..(14)
<223> Met(0)

<220>
<221> MOD_RES
<222> (25)..(25)
<223> Trp(02)

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Cyclic Imide

<400> 80
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1          5          10          15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
          20          25          30

Ser Gly Ala Ser Lys Lys Lys Lys Lys Lys
          35          40

<210> 81
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Met(0)

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Trp(02)

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Cyclic Imide

<400> 81
Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Leu
1          5          10          15

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50412_022002 Sequence Listing.txt

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
 20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
 35 40 45

<210> 82

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (20)..(20)

<223> Met(O)

<220>

<221> MOD_RES

<222> (31)..(31)

<223> Trp(O2)

<220>

<221> MOD_RES

<222> (34)..(34)

<223> Cyclic Imide

<400> 82

Asn Glu Glu Glu Glu Glu His Gly Glu Gly Thr Phe Thr Ser Asp Leu
 1 5 10 15

Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu
 20 25 30

Lys Xaa Gly Gly Pro Ser Ser Gly Ala Ser Lys Lys Lys Lys Lys
 35 40 45

<210> 83

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 83

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
 20 25 30

50412_022002 Sequence Listing.txt

Ser Gly Ala Pro Pro Pro Ser
35

<210> 84
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (28)..(28)
<223> IsoAsp

<400> 84
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 85
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Cyclic Imide

<400> 85
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 86
<211> 39

50412_022002 Sequence Listing.txt

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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Met(O)

<400> 86
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1          5          10          15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20          25          30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 87
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (25)..(25)
<223> Trp(O2)

<400> 87
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1          5          10          15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20          25          30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 88
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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50412_022002 Sequence Listing.txt

<220>
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 <222> (14)..(14)
 <223> Met(0)
 <400> 88
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Pro Pro Pro Ser
 35

<210> 89
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (14)..(14)
 <223> Met(0)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> IsoAsp

<400> 89
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Pro Pro Pro Ser
 35

<210> 90
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>

50412_022002 Sequence Listing.txt

<221> MOD_RES
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<223> Met(O)

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Cyclic Imide

<400> 90
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 91
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Met(O)

<220>
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<222> (25)..(25)
<223> Trp(O2)

<400> 91
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 92
<211> 39
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<220>
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50412_022002 Sequence Listing.txt

<220>
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 <222> (25)..(25)
 <223> Trp(02)

<400> 92
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Pro Pro Pro Ser
 35

<210> 93
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 <212> PRT
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<220>
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 <223> Trp(02)

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 <222> (28)..(28)
 <223> IsoAsp

<400> 93
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Pro Pro Pro Ser
 35

<210> 94
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
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50412_022002 Sequence Listing.txt

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<220>
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<400> 94
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1          5          10          15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
20          25          30

Ser Gly Ala Pro Pro Pro Ser
35

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1          5          10          15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
20          25          30

Ser Gly Ala Pro Pro Pro Ser
35

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<220>
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<400> 96
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Pro Pro Pro Ser
 35

<210> 97
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 <212> PRT
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<220>
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<220>
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<220>
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 <222> (28)..(28)
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<400> 97
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
 20 25 30

50412_022002 Sequence Listing.txt

Ser Gly Ala Pro Pro Pro Ser
35

<210> 98
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<220>
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<220>
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<400> 98
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Ser
35

<210> 99
<211> 38
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<213> Artificial Sequence

<220>
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<220>
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<400> 99
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Ser
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<220>
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<400> 100
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Xaa Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Ser
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<210> 101
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<212> PRT
<213> Heloderma suspectum

<400> 101
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<210> 102
<211> 5
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<400> 102
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1 5

<210> 103
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<400> 103

Ser Ser Gly Ala

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<210> 104

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 104

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
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<210> 105

<211> 45

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 105

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1 5 10 15Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
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<223> Description of Artificial Sequence: Synthetic peptide

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Lys Lys Lys Lys Lys Lys
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<210> 107

50412_022002 Sequence Listing.txt

<211> 39

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

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<223> This region may encompass 0 to 3 Proline residues

<400> 107

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20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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<211> 37

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 108

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1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asp Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Ser
35